Infonomics: The Economics of Information and Principles of Information Asset Management

ABSTRACT

Information increasingly is the stuff of our capitalistic cosmos that affects the orbits of so many enterprises. Just because data may be the dark matter that permeates the economy, that shouldn't stop us from trying to formally measure it and manage it. Imagine any enterprise unable to account for its inventory of finished goods and materials. Yet, this is the unfortunate circumstance for organizations that traffic in or heavily leverage information. Established financial standards and econometric methods fail to enable quantifying this increasingly ubiquitous and admittedly amorphous class of asset. Until they do, or perhaps as a harbinger, this session will illustrate several methods enterprises can and should be using today to formally account for the value of their information assets.

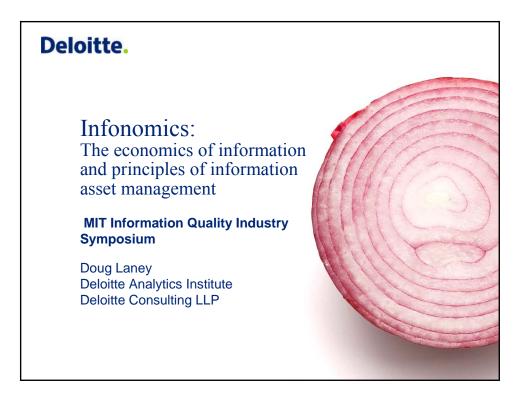
BIOGRAPHY

Doug Laney Eminence Lead, Deloitte Analytics Institute Deloitte Consulting LLP

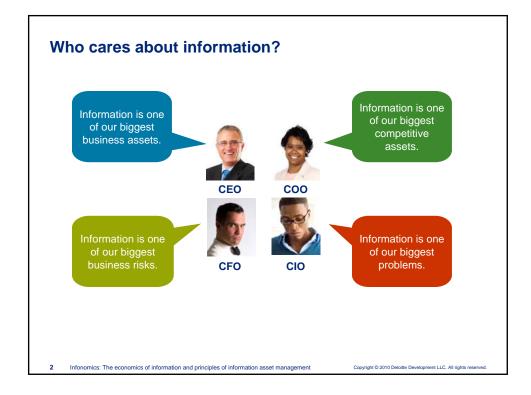
Doug currently heads thought leadership and marketing for the Deloitte Analytics Institute. Previously he launched and ran the enterprise analytics strategies research and advisory service for the IT analyst firm META Group (now part of Gartner). In this role he advised hundreds of organizations around the world, published over 100 articles and was a regular speaker at industry events on topics from information

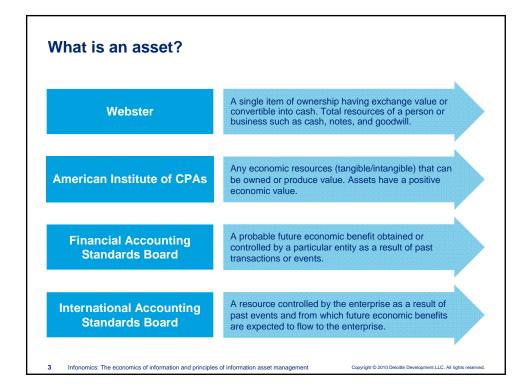


management to business intelligence. Doug is also considered one of the pioneers in the field of data warehousing, and is an analytic solution innovator. He led the development of the industry's first commercial data warehouse project methodology (still in use worldwide today), and developed ground-breaking methods for online, collaborative, self-service research and benchmarking. More recently, Doug has been asked to join the faculty of the Data Warehouse Institute and teaches a course on applying traditional asset management and valuation principles to information assets.



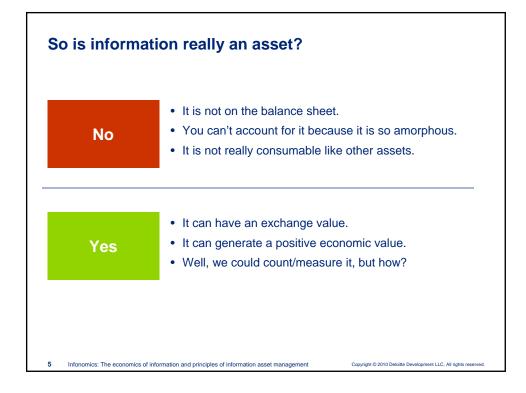


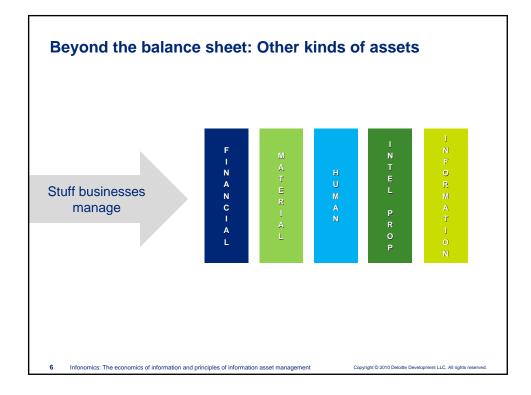


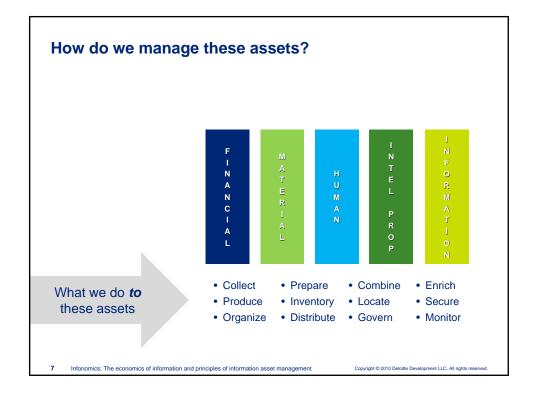


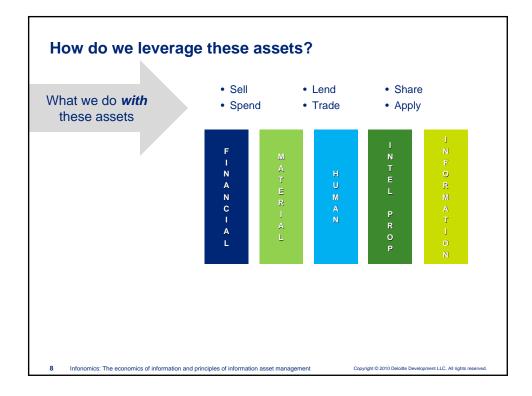
	2010 US\$m	2009 US\$m	
Noncurrent assets			
Goodwill	3,412	3,125	
Other intangible assets	1,233	1,189	
Property, plant, and equipment	451	479	
Investments in associates	243	332	
Deferred tax assets	176	13	
Trade and other receivables	8	5	
vailable-for-sale financial assets	33	26	
Other financial assets	88	61	
Current assets			
Inventories	3	4	
Trade and other receivables	800	738	
Current tax assets	4	17	
Other financial assets	27	21	
Cash and cash equivalents	175	129	
ssets classified as held for sale	25	-	

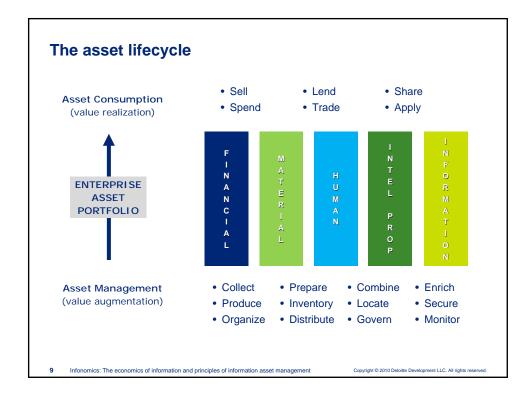


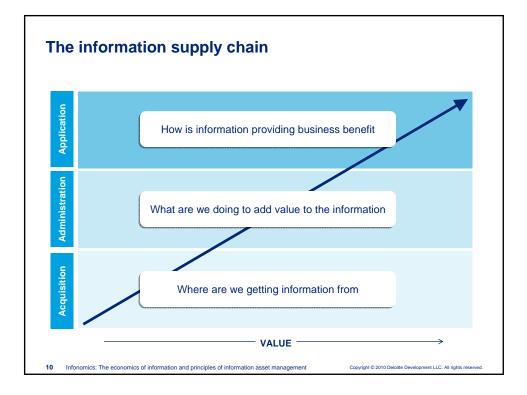


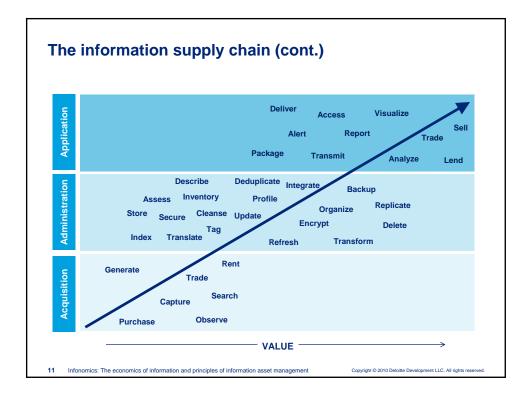




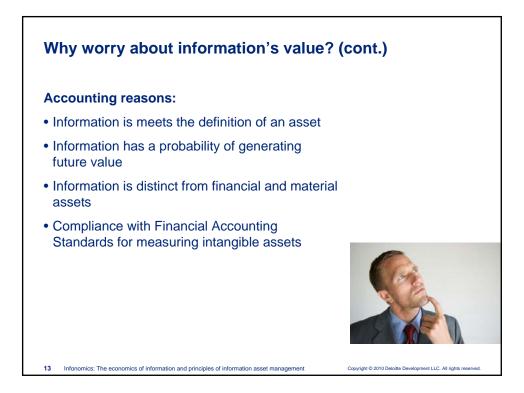


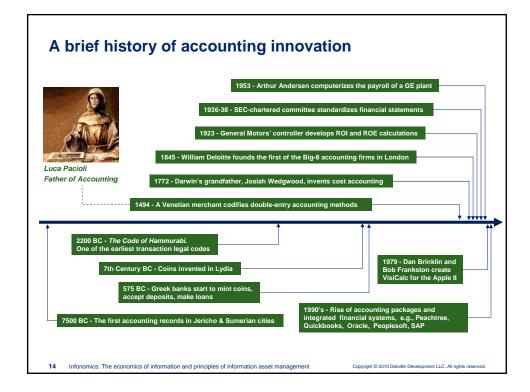












Method	Description	Information asset implications	
Market approach	What the market will bear for selling this asset? Requires an active <i>arm's-length</i> marketplace and a salable asset.	Is there an active marketplace for given types of information assets? Perhaps so for publicly captured information or customer lists. Most of our information assets are not legally saleable.	
Income approach	What income stream this asset will generate? Often requires an alternative for comparison.	How can any unit or portfolio of information be ascribed to a business function that generates an income strean if it is not directly sold?	
Cost approach	What will it cost to replace this asset if lost? Requires that this asset can be replaced somehow.	What was (would be) the cost to generate, capture, or otherwise reacquire that information? This requires that all units of information are assumed to have a (probable) economic benefit.	

Objective factors		Subjective factors		
Accuracy	The data accurately represents reality or a verifiable source.	Relevance	The data is applicable to one or more business processes or	
Integrity	Appropriate links and relationships exist among data.		decisions.	
Consistency	Each type of data has a single representation	Usability	Business process(es) and/or individuals understand and are able to leverage this data.	
Completeness	Records are not missing fields. Data sets are not missing instances.	Believability	Data is deemed credible by those using it.	
Accessibility	Data is easily retrieved and/or integrated into business	Clarity	Data has a unique meaning and can be easily comprehended.	
Precision	processes. Data is recorded with the precision required by the business.	Objectivity	Data is unbiased and impartial and not depend on the judgment, interpretation, or evaluation of individuals.	
Timeliness	Data is updated with sufficient frequency to meet the business requirements.	Scarcity	Is the data proprietary, secret, and difficult to come by?	

Information asset valuation: What can be counted? Information-related characteristics • Quality features (completeness, accuracy, etc.) • Relevance (its bearing on a process, uniqueness) • Timeliness (accessibility, currency) Information-related costs · Cost to acquire it • Cost to administer it · Cost to apply it • Revenue lost if we don't have it Information-related benefits • Process/function performance gain • Revenue/margin contribution 17 Infonomics: The economics of information and principles of information asset management Copyright © 2010 Deloitte Development LLC. All rights reser

